## CLAIMS

## What is claimed is:

- 1. (currently amended) A method for fabricating a write pole tip for perpendicular
  recording, comprising:
- fabricating a P1 write pole, coils and a P2 flux shaping layer;
  - B) depositing a P3 layer on said P2 flux shaping layer;
- C) depositing a CMP stop layer on said P3 layer;
- D) depositing at least one sacrificial layer on said CMP stop layer;
- shaping said P3 layer into P3 pole tip;
  - F) removing said at least one sacrificial layer to leave said P3 pole tip; and
- G) encapsulating said P3 pole tip in a protective layer.
- 1 2. (original) The method of claim 1, wherein:
- 2 said P3 layer material of B) is a material chosen from the group consisting of
- 3 CoFe, CoFeN, NiFe, CoFe alloys, CoFeN alloys, NiFe alloys, Cr, Al<sub>2</sub>O<sub>3</sub>, and Ru.
- 1 3. (original) The method of claim 1, wherein:
  - said CMP stop layer material of C) is a material chosen from the group consisting
- 3 of Al<sub>2</sub>O<sub>3</sub>, Ta<sub>2</sub>O<sub>5</sub>, SiO<sub>x</sub>N<sub>y</sub>, Al<sub>2</sub>O<sub>3</sub> alloys, Ta<sub>2</sub>O<sub>5</sub> alloys, SiO<sub>x</sub>N<sub>y</sub> alloys and insulation
- 4 materials.

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- 1 4. (original) The method of claim 1, wherein:
- 2 said at least one sacrificial layer of D) comprises a sacrificial layer PS of
- 3 sacrificial material chosen from the group consisting of NiFe, NiP and plated materials
- 4 with high ion milling resistances.
  - 5.(original) The method of claim 4, wherein:
- 2 said at least one sacrificial layer of D) further comprises a seed layer of sacrificial
- 3 material.
- 1 6. (previously presented) The method of claim 5, wherein:
- 2 said at least one sacrificial layer is formed by creating a cavity surrounded by
- 3 photo-resist material, said cavity then being filled with sacrificial material.
- 7. (original) The method of claim 1, wherein:
- 2 said shaping of said P3 layer of E) is done by ion milling.
- 8. (previously presented) The method of claim 7, wherein:
  - said ion milling is done to first produce a straight-sided structure, as said at least
- 3 one sacrificial layer masks said P3 pole tip, and then said CMP stop layer acts as a
- 4 secondary mask as ion milling is used to bevel the sides of said P3 pole tip.

1 9. (original) The method of claim 8, wherein: 2 said beveled sides of said P3 pole tip are beveled to an angle with the range of 8 3 degrees to 15 degrees. 1 10. (original) The method of claim 1, wherein: 2 said finished P3 pole tip has a width less than 200 nm. 1 11. (withdrawn) The method of claim 1, wherein: 2 said removing of said at least one sacrificial layer of F) further comprises 3 removing said CMP stop layer. 1 12. (withdrawn) The method of claim 11, wherein: 2 said removing of said CMP stop layer comprises using Chemical Mechanical 3 Polishing. 13. (original) The method of claim 1, wherein: 1 2 said encapsulating material of G) comprises material matching that of said CMP 3 stop layer. 4 1 14. (withdrawn) The method of claim 1, wherein: 2 said at least one sacrificial layer of D) comprises magnetic material; and 3 said removing said at least one sacrificial layer of F) requires that all of said

magnetic material of said at least one sacrificial layer be completely removed.